

# Receiving Report

Date: 138-16

Batch No: m126615

Supplier: ThyssenKrupp

Dart P/O: 20874

Packing Slip: Yes ☐ No ☐  
 Invoice: Yes ☐ No ☐  
 Receipt: Cash ☐ Cr ☐

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection On 13/08/12 N/A ☒  
 Work Order                      N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 SP

Production/Admin: 138-16  
 Date                       
 Received/Costing                       
 Initial SP

Location

## Page 1 of 1

All amounts are calculated in domestic currency.

8/16/2013

## All Currencies

Grouped by Vendor ID

**Total Received Quantity:**  
**Total Qty to Inspect (PO U/M):**  
**Total Reject Quantity:**  
**Total Receipt Value:**  
**Total Balance Due Quantity:**

## B I L L O F L A D I N G

No: PEC 836156

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Aug13 at 13:13 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0-0 Manifest  
 Vhcle 201512 Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: (20115)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

Ship To: (1)  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

## B I L L O F L A D I N G

1) Our Order PEC-594647- 1 Your PO # 20874  
 Part # QQ-A- 250/12 PLATE ALL ITEMS Rel #  
 ALUMINUM PLATE 7075-T651  
 .375" THICK X 5.0000" X 144.5000"

Heat Number Tag No  
 559802A4 207227

Quantity PCS Wt LBS  
 40.14 SFT 8 224

MTR

2) Our Order PEC-594647- 2 Your PO # 20874  
 Part # QQ-A- 250/12 PLATE ALL ITEMS Rel #  
 ALUMINUM PLATE 7075-T651  
 1.00" THICK X 5.0000" X 144.5000"

Heat Number Tag No  
 R01702 207228

Quantity PCS Wt LBS  
 10.03 SFT 2 157

MTR

3) Our Order PEC-594647- 3 Your PO # 20874  
 Part # QQ-A- 250/12 PLATE ALL ITEMS Rel #  
 ALUMINUM PLATE 7075-T651  
 2.250" THICK X 2.7500" X 144.5000"

Heat Number Tag No  
 383331 207229

Quantity PCS Wt LBS  
 22.08 SFT 8 773

MTR

4) Our Order PEC-594647- 4 Your PO # 20874  
 Part # QQ-A- 250/12 PLATE ALL ITEMS Rel #  
 ALUMINUM PLATE 7075-T651  
 2.00" THICK X 7.0000" X 13.3750"  
 GRAIN ALONG THE 13.375 DIM

Heat Number Tag No  
 412001 207230

Quantity PCS Wt LBS  
 13.00 SFT 20 391

MTR

Page: 1 ....Continued

Luc Larivière 16 août 2013

SP13-8-16

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

1 SK.d ✓

Luc Larivière 16 août 2013

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

## B I L L O F L A D I N G

No: PEC 836156

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Aug13 at 13:13 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115)  
 DART AEROSPACE

Ship To: ( 1)  
 DART AEROSPACE

## B I L L O F L A D I N G

5) Our Order PEC-594647- 5 Your PO # 20874  
 Part # QQ-A- 250/12 PLATE ALL ITEMS Rel #  
 ALUMINUM PLATE 7075-T651  
 3.00" THICK X 4.5000" X 34.0000"  
 GRAIN DIRECT TOWARD 34.00 DIM

Heat Number	Tag No	Quantity	PCS	Wt LBS
401841	207231	21.25 SFT	20	975

TOTAL:	Tags	PCS	LBS
	5	58	2520

Heat Number 559802A4 \*\*\* Chemical Analysis \*\*\*

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
 TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
 \*\* REFERENCED ON IT \*\*

TOTAL 1 BDL, 1 SKID G.W. 2554 LBS

ITEMS (1,2,3) BDL  
 ITEMS (4,5) SKID

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA  
 CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*  
 \*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*  
 \* WE STOCK STAINLESS STEEL \*  
 \* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

Page: 2 ....Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

## B I L L O F L A D I N G

No: PEC 836156

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 14Aug13 at 13:13 From PFW  
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Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

## B I L L O F L A D I N G

\*\*\*\*\*  
\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 3 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

# KAISER ALUMINUM FABRICATED PRODUCTS

*Best in Class*

## CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

CUSTOMER PO NUMBER: 5400106640-0060		WORK PACKAGE:	CUSTOMER PART NUMBER: ALFLR00984-60.5		PRODUCT DESCRIPTION: Sawed Plate
KAISER ORDER NUMBER: 1120519	LINE ITEM: 5	SHIP DATE: 10/03/2011	ALLOY: 7075	CLAD: BARE	TEMPER: T651
WEIGHT SHIPPED: 4758 LB	QUANTITY: 14 PCS EST.	B/L NUMBER: 2033942	GAUGE: 0.3750 IN	WIDTH: 60.500 IN	LENGTH: 144.500 IN
SHIP TO:  COPPER & BRASS SALES 5450 EAST HOME FRESNO, CA 93727 US			SOLD TO:  COPPER & BRASS SALES ATTN: ACCOUNTS PAYABLE P.O. Box 5116 SOUTHFIELD, MI 48086 US		

MHU 1526136: LOT 559802A4: 14 pieces

### Certified Specifications

AMS 4045/RevK AMS-QQ-A-250/12 ASTM B 209/Rev07

Test Code: 1512

Test Results:

*13/08/17*

LOT: 559802A4 CAST: 414 DROP: 28 INGOT: 4

Melted in USA  
(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir/#Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T651	LT / 02 (Min:Max)	83.7 : 83.9 (577 : 578)	72.8 : 72.8 (502 : 502)	13.5 : 14.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.08	0.17	1.4	0.02	2.4	0.19	5.5	0.03	0.01	0.01	TOT 0.05

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
7075	MIN	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	MAX 0.05
	MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	TOT 0.15

Aluminum Remainder

Plant Serial: 4240789

Kaiser Order Number: 1120519

Line Item: 5

Page 1 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637332

CstAr

CstOr 250935

Wgt.: 224.000LB

Date 08/12/2013

*John R. Zumbach*

# **KAISER**

## **ALUMINUM**

### **FABRICATED PRODUCTS**

*Best in Class*

## **CERTIFIED TEST REPORT**

<http://Online.KaiserAluminum.com>

Kaiser Aluminum  
Trentwood Works  
Spokane, WA 99215-5108  
(800) 367-2586

### **CERTIFICATION**

Kaiser Aluminum Fabricated Products, LLC (Kaiser) hereby certifies that metal shipped under this order was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content. This material has been inspected, tested and found in conformance with the requirements of the applicable specifications as indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. All metal which is solution heat treated complies with AMS 2772. Any warranty is limited to that shown on Kaiser's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of Kaiser Aluminum Fabricated Products, LLC laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law. ISO-9001:2000 certified.

MIKE KLOCKE, LABORATORIES SUPERVISOR

Plant Serial: 4240789

Kaiser Order Number: 1120519

Line Item: 5

Page 2 of 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637332

CstAr

CstOr 250935

Wgt.: 224.000 LB

Date 08/12/2013

*John R. Zumbach*

From: ThyssenKrupp Materials NA  
Cust. THYSSENKRUPP MATERIALS NA - ECAD  
CstAr  
Wgt.: 157.000 LB  
CstOr 250935  
Date 08/12/2013  
Del.: 2402637340

Constellium Valais SA

CH-3960 Sierre  
Suisse

Global Aerospace, Transportation and Industry  
Europe - ATI Valais, Sierre and Steg plants

Tel : +41(0) 27 457 51 11  
http://www.constellium.com



CONSTELLIUM ROLLED PRODUCTS  
RAVENSWOOD, LLC

US -26164 RAVENSWOOD

<b>INSPECTION CERTIFICATE</b>	
According To	EN 10204-3.1
Disp. Advice / Cert	0080230386
Date	12/02/2013 Page 1
Your Order	5400157453
Project	Copper & Brass
Dated	12/11/2012
Our Confirmation No.	140224-70
Customer No.	606281
Sales Contact	Fabienne Salamin ++41 (27) 457 6432
Certificate Dpt :	41 27 457 66 92

Aluminium plates in AA7075-T651, mill finish, Alumatex paper interleaved  
To AMS 4045K, AMS QQ-A-250/12 August 1997, ASTM B209 and SIE0002

Your article : 012-000469

Lot	Production No.	Weight	Quantity	Dimensions
R01702	6236494	3937.39 Lbs	4	1.030" x 62.50" x 145.00"

*only*  
13/08/17

**Mechanical and technological properties**

Sample	Temper	Ksi-UTS	Ksi-Y8	A%Zinch	HB							
min-max	T651	>=77	>=67	>=6								
min-max												

**Measured values**

R01702-1	T651	84.0	75.0	12	175							
R01702-2	T651	84.0	74.8	12	176							

**Chemical composition**

Required composition (% by weight)

Casting No	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Si	
Min			1.2		2.1	.18		5.1			
Max	.40	.50	2.0	.30	2.9	.28	.05	6.1	.20	.40	

Analysis results (% by weight)

Other elements: Each <= 0.05% Total <= 0.15%

30171291	0.07	0.21	1.56	0.045	2.48	0.18	0.0053	5.87	0.022	0.0700	
----------	------	------	------	-------	------	------	--------	------	-------	--------	--

**Remark**

This certificate of conformance verifies that the organization took effective control of quality to meet the specified requirements on both the sales order(s) and the customer purchase order(s)

\*\*\* COUNTRY OF ORIGIN AND MANUFACTURE : SWITZERLAND \*\*\*

Definition of abbreviations on request

Alain Thurre  
Inspection Department  
Valid without signature 03



*John A. Jacoby*



3



**CERTIFIED TEST REPORT**  
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

46544

48086

COPPER&BR N68205 4075 INCLUSION SERIAL#: 20130422N68205 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400175333				Constellium ORDER NO. 110-512983	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.28000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL <i>13/08/12</i>					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR01001			B/L NUMBER N68200		DATE SHIPPED 04/22/13
WEIGHT SHIPPED 8,420		NO. OF PIECES 4		GOVT. CONTRACT NO.	

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
383331	LT	2	***** T651 79.3	79.8	69.4	69.5	***** 12.5	13.0											
All material contained in lot 383331 was cast and manufactured in the USA.																			
-----																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
-----																			
ASTM B209-10 AND AMS 4045K																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637341

CstAr

CstOr 250935

Wgt.: 773.000 LB

Date 08/12/2013

*John R. Zambetti*



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

46544

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

48086

COPPER&BR N68205 4075 INCLUSION SERIAL#: 20130422N68205 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400175333				Constellium ORDER NO. 110-512983	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.28000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL <i>One</i> <i>13/08/17</i>					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR01001		B/L NUMBER N68200		DATE SHIPPED 04/22/13	
WEIGHT SHIPPED 8,420		NO. OF PIECES 4		GOVT. CONTRACT NO.	

CERTIFICATION

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

**Constellium Rolled Products Ravenswood, LLC**  
**Rt 2 South, Century Road**  
**P.O. BOX 68**  
**RAVENSWOOD, WV 26164 USA**

*Rodney J. Felty*  
 Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
383331	C		ACTUAL CHEMICAL COMPOSITION																
			SI= 0.06	FE= 0.15	CU= 1.51	MN= 0.04	MG= 2.54												
			CR= 0.19	ZN= 5.61	TI= 0.02	ZR= 0.01													
			OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637341

CstAr

CstOr 250935

Wgt.: 773.000 LB

Date 08/12/2013

John. Zambetti



**CERTIFIED TEST REPORT**  
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

46544

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

48086

COPPER&BR N68205 4075 INCLUSION SERIAL#: 20130422N68205 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400175333				Constellium ORDER NO. 110-512983		<b>CERTIFICATION</b> "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  Constellium Rolled Products Ravenswood, LLC Rt 2 South, Century Road P.O. BOX 68 RAVENSWOOD, WV 26164 USA  <i>Rodney J. Felty</i> Rodney J. Felty - Laboratory Manager	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.28000	WIDTH 60.500	LENGTH 144.500		
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL							
CUSTOMER SPECIFICATION AMS-QQ-A-250/12							
PART NUMBER ALFLR01001		B/L NUMBER N68200		DATE SHIPPED 04/22/13			
WEIGHT SHIPPED 8,420		NO. OF PIECES 4		GOVT. CONTRACT NO.			

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.  CHEMISTRY BY OES: ARKSPARK  CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.  WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.  WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.  Mark Paperwork: ALFLR01001  DUNS Number: 090570149; CAGE Code: 1YWL9  Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.  "END OF CERTIFICATION"																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.		
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637341

CstAr

CstOr 250935

Wgt.: 773.000 LB

Date 08/12/2013

*John L. Zambetti*

4



**CERTIFIED TEST REPORT**  
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

46544

48086

COPPER&BR R19801 4075 INCLUSION SERIAL#: 20130703R19801 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400182030				Constellium ORDER NO. 110-513193	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999			B/L NUMBER R19800		DATE SHIPPED 07/05/13
WEIGHT SHIPPED 5,475		NO. OF PIECES 3		GOVT. CONTRACT NO.	

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
412001	LT	2	***** T651 80.7	82.0	70.7	71.5	***** 14.0	14.0											
All material contained in lot 412001 was cast and manufactured in the USA.																			
-----																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
-----																			
ASTM B209-10,AMS 4045K																			
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637342

CstAr

CstOr 250935

Wgt.: 391.000 LB

Date 08/12/2013

*John R. Zambetti*



**CERTIFIED TEST REPORT**  
Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

46544

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

48086

COPPER&BR R19801 4075 INCLUSION SERIAL#: 20130703R19801 PAGE 2 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400182030				Constellium ORDER NO. 110-513193	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999			B/L NUMBER R19800		DATE SHIPPED 07/05/13
WEIGHT SHIPPED 5,475		NO. OF PIECES 3		GOVT. CONTRACT NO.	

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
412001	C		ACTUAL CHEMICAL COMPOSITION																
			SI= 0.05	FE= 0.09	CU= 1.56	MN= 0.01	MG= 2.48												
			CR= 0.21	ZN= 5.52	TI= 0.02	ZR= 0.00													
			OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																
CHEM COMP	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
		SEE ACTUAL CHEMICAL COMPOSITION																	
		ALUMINUM REMAINDER																	

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637342

CstAr

CstOr 250935

Wgt.: 391.000 LB

Date 08/12/2013

*John R. Zambetti*



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

COPPER & BRASS SALES  
1015 SAINT JEROME STREET  
MISHAWAKA IN

COPPER & BRASS SALES  
P.O. BOX 5116  
SOUTHFIELD MI

46544

48086

COPPER&BR R19801 4075 INCLUSION SERIAL#: 20130703R19801 PAGE 3 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM 5400182030				Constellium ORDER NO. 110-513193	
ALLOY 7075	CLAD. 00	TEMPER T651	GAUGE 2.03000	WIDTH 60.500	LENGTH 144.500
ITEM ORDERED MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION AMS-QQ-A-250/12					
PART NUMBER ALFLR00999			B/L NUMBER R19800		DATE SHIPPED 07/05/13
WEIGHT SHIPPED 5,475		NO. OF PIECES 3		GOVT. CONTRACT NO.	

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
Rt 2 South Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS											
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX										
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.																				
CHEMISTRY BY OES: ARKSPARK																				
CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.																				
WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.																				
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.																				
Mark Paperwork: ALFLR00999																				
DUNS Number: 090570149; CAGE Code: 1YWL9																				
Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.																				
"END OF CERTIFICATION"																				
C H E M C O M P	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS		
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.	
	SEE ACTUAL CHEMICAL COMPOSITION																			
ALUMINUM REMAINDER																				

P-860-155D (06/11)

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637342

CstAr

CstOr 250935

Wgt.: 391.000 LB

Date 08/12/2013

*John R. Zambetti*

5



# CERTIFIED TEST REPORT

Constellium Rolled Products Ravenswood, LLC

**COPPER & BRASS SALES**  
1015 SAINT JEROME STREET  
MISHAWAKA IN  
46544

**COPPER & BRASS SALES**  
P.O. BOX 5116  
SOUTHFIELD MI  
48086

COPPER&BR P12605 4075 INCLUSION SERIAL#: 20130522P12605 PAGE 1 OF 3

CUSTOMER PURCHASE ORDER NO. & ITEM		Constellium ORDER NO.			
5400179097		110-513101			
ALLOY	CLAD	TEMPER	GAUGE	WIDTH	LENGTH
7075	00	T651	3.00000	60.500	144.500
ITEM ORDERED					
MOLD PLATE-DIST GE SPEC PLATE, SAWED MILL					
CUSTOMER SPECIFICATION					
AMS-QQ-A-250/12					
PART NUMBER		B/L NUMBER		DATE SHIPPED	
ALFLR01006		P12600		05/24/13	
WEIGHT SHIPPED		NO. OF PIECES		GOVT. CONTRACT NO.	
11,120		4			

**CERTIFICATION**  
"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."  
  
Constellium Rolled Products Ravenswood, LLC  
Rt 2 South Century Road  
P.O. BOX 68  
RAVENSWOOD, WV 26164 USA  
  
*Rodney J. Felty*  
Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX									
401841	LT	2	***** T651 80.8	82.0	70.8	71.9	***** 12.0	12.5											
All material contained in lot 401841 was cast and manufactured in the USA.																			
-----																			
ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS																			
-----																			
ASTM B209-10,AMS 4045K																			
CHEMICAL COMPOSITION	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
	ALUMINUM REMAINDER																		

From: ThyssenKrupp Metals  
Cust. THYSSENKRUPP MATERIALS NA - ECAD  
CstAr  
Wgt.: 975.000 LB  
CstOr 250935  
Date 08/12/2013  
Del.: 2402637343

*John G. Smith*

Wgt.: 975.000 LB

Cstax

Cust. THYSSENKRUPP MATERIALS NA - ECAD

From: ThyssenKrupp

**Constellium**

**COPPER & BRASS SALES**  
**1015 SAINT JEROME STREET**  
**MISHAWAKA IN**

46544



**COPPER & BRASS SALES**  
**P.O. BOX 5116**  
**SOUTHFIELD MI**

48086

# **CERTIFIED TEST REPORT**

Constellium Rolled Products Ravenswood, LLC

**COPPER&BR P12605 4075 INCLUSION SERIAL#: 20130522P12605 PAGE 2 OF 3**

CUSTOMER PURCHASE ORDER NO. & ITEM		Constellium ORDER NO.	
5400179097		110-513101	
ALLOY	CLAD.	TEMPER	GUAGE
7075	00	T651	3.00000
WIDTH	LENGTH		
60.500	144.500		
ITEM ORDERED			
MOLD PLATE-DIST GE			
SPEC PLATE, SAWED MILL			
CUSTOMER SPECIFICATION			
AMS-QQ-A-250/12			
PART NUMBER	B/L NUMBER	DATE SHIPPED	
ALFLR01006	P12600	05/24/13	
WEIGHT SHIPPED	NO. OF PIECES	GOVT. CONTRACT NO.	
11,120	4		

**CERTIFICATION**

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

Constellium Rolled Products Ravenswood, LLC  
 Rt 2 South, Century Road  
 P.O. BOX 68  
 RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
 Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS												
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN	MAX											
401841	C		ACTUAL CHEMICAL COMPOSITION																		
			SI= 0.06	FE= 0.13	CU= 1.51	MN= 0.03	MG= 2.64														
			CR= 0.20	ZN= 5.55	TI= 0.03	ZR= 0.01															
			OTHERS-EACH: .05 MAX. OTHERS TOTAL: .15 MAX. AL REMAINDER																		
CHEM COMPA	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS			
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.		
		SEE ACTUAL CHEMICAL COMPOSITION																			
		ALUMINUM REMAINDER																			

P-860-155D (06/11)

*John G. Smith*

Date 08/12/2013

Cstor 250935

Del.: 2402637343



Wgt.: 975.000 LB

CstAt

Cust: THYSSENKRUPP MATERIALS NA - ECAD Del.: 2402637343

From: ThyssenKrupp

**Constellium**

**COPPER & BRASS SALES**  
**1015 SAINT JEROME STREET**  
**MISHAWAKA IN**

46544



# **CERTIFIED TEST REPORT**

Constellium Rolled Products Ravenswood, LLC

**COPPER & BRASS SALES**  
**P.O. BOX 5116**  
**SOUTHFIELD MI**

48086

**COPPER&BR P12605 4075 INCLUSION SERIAL#: 20130522P12605 PAGE 3 OF 3**

CUSTOMER PURCHASE ORDER NO. & ITEM <b>5400179097</b>				Constellium ORDER NO. <b>110-513101</b>	
ALLOY <b>7075</b>	CLAD <b>00</b>	TEMPER <b>T651</b>	GAUGE <b>3.00000</b>	WIDTH <b>60.500</b>	LENGTH <b>144.500</b>
ITEM ORDERED <b>MOLD PLATE-DIST GE</b>					
CUSTOMER SPECIFICATION <b>SPEC PLATE, SAWED MILL</b>					
AMS-QQ-A-250/12					
PART NUMBER <b>ALFLR01006</b>		B/L NUMBER <b>P12600</b>		DATE SHIPPED <b>05/24/13</b>	
WEIGHT SHIPPED <b>11,120</b>		NO. OF PIECES <b>4</b>		GOVT. CONTRACT NO.	

**CERTIFICATION**

"Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination."

**Constellium Rolled Products Ravenswood, LLC**  
 Rt 2 South, Century Road  
 P.O. BOX 68  
 RAVENSWOOD, WV 26164 USA

*Rodney J. Felty*  
 Rodney J. Felty - Laboratory Manager

LOT NUMBER	TEST DIRECTION	NO. OF TESTS	ULTIMATE STRENGTH K.S.I.		YIELD STRENGTH K.S.I.		ELONGATION %		COND % IACS										
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.									
<p>THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE.</p> <p>THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.</p> <p>CHEMISTRY BY OES: ARKSPARK</p> <p>CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT.</p> <p>WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399.</p> <p>WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E8; B557.</p> <p>Mark Paperwork: ALFLR01006</p> <p>DUNS Number: 090570149; CAGE Code: 1YWL9</p> <p>Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.</p> <p>"END OF CERTIFICATION"</p>																			
CHEM COM	ALLOY	SILICON		IRON		COPPER		MANGANESE		MAGNESIUM		CHROMIUM		ZINC		TITANIUM		OTHERS	
		MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	EACH MAX.	TOTAL MAX.
	SEE ACTUAL CHEMICAL COMPOSITION																		
ALUMINUM REMAINDER																			

P-880-155D (06/11)

*John G. Smith*

Date 08/12/2013

CstOr 250935

**COPPER AND BRASS SALES****MATERIAL TYPE****ALUMINIUM ALLOYS****PRODUCT DESIGNATION**

2014 2024 2224 2324 7050 7075 7150 7175 7475 ALUMEC 89 ALUMEC 99 QC-7

**"WARNING"**

SMALL CHIPS,FINE TURNINGS AND DUST MAY IGNITE READILY.EXPLOSION POTENTIAL MAY BE PRESENT WHEN:DUST OR FINES ARE DISPERSED IN THE AIR; FINE, DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH CERTAIN METAL OXIDES; OR,CHIPS,FINES,DUST OR MOLTEN ALUMINUM ARE IN CONTACT WITH WATER OR MOISTURE.KEEP AWAY FROM IGNITION SOURCE.USE EXPLOSION-PROOF VENTILATION.KEEP MATERIAL DRY.

THIS PRODUCT CONTAINS BERYLLIUM AND COPPER.INHALING BERYLLIUM DUST OR FUMES MAY CAUSE CHRONIC BERYLLIUM DISEASE (CBD),A SERIOUS CHRONIC LUNG DISEASE IN SOME INDIVIDUALS.BERYLLIUM IS A CANCER HAZARD;OVER TIME CBD AND CANCER CAN BE FATAL,TARGET ORGAN IS PRIMARILY THE LUNG.INHALING LARGE AMOUNTS OF COPPER,MAGNESIUM OXIDE,MANGANESE OXIDE,AND ZINC OXIDE FUMES OR DUST MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS.CHRONIC OVEREXPOSURE TO COPPER MAY CAUSE THICKENING OF THE SKIN;AND SKIN,TEETH,AND HAIR DISCOLORATION.CHRONIC OVEREXPOSURE TO MANGANESE DUST CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE,SCARRING OF THE LUNGS AND REPRODUCTIVE HARM IN MALES.TARGET ORGAN IS PRIMARILY THE LUNG,BUT REPEATED HIGH EXPOSURE CAN ALSO AFFECT THE LIVER.CHRONIC OVEREXPOSURE TO IRON OXIDE DUST/FUME MAY CAUSE LUNG SIDEROSIS.CHRONIC OVEREXPOSURE TO SILICON DUST CAN CAUSE CHRONIC BRONCHITIS.OVEREXPOSURE TO AMORPHOUS SILICA CAN CAUSE DRYING OF THE MUCOUS MEMBRANES OF THE EYES,NOSE,AND THROAT.

THIS PRODUCT ALSO CONTAINS NICKEL AND CHROMIUM COMPOUNDS.INHALATION OF NICKEL DUST OR FUME MAY RESULT IN INFLAMMATION OF THE RESPIRATORY TRACT AND CAUSE NASAL AND/OR LUNG CANCER.NICKEL HAS BEEN IDENTIFIED AS A POTENTIAL HUMAN CARCINOGEN.EXPOSURE TO CHROMIUM DUST OR FUMES MAY CAUSE METAL FUME FEVER WITH FLU-LIKE SYMPTOMS AND KIDNEY AND LIVER DAMAGE.UNDER HIGH TEMPERATURES,HEXAVALENT CHROMIUM MAY BE PRODUCED,IF IN THE INSOLUBLE FORM,IT IS A CONFIRMED HUMAN CARCINOGEN.(CALIFORNIA PROPOSITION 65).

IF COATED WITH OIL,MAY CAUSE SKIN IRRITATION/DERMATITIS BY CONTACT.WELDING FUME IS LISTED AS A POSSIBLE CARCINOGENIC TO HUMANS.

READ THE ALUMINIUM/ALUMINIUM ALLOYS MATERIAL SAFETY DATA SHEET (MSDS) ON FILE WITH YOUR EMPLOYER BEFORE WORKING WITH THIS MATERIAL.

\* If processing or recycling produces particulate,use exhaust ventilation or other controls designed to prevent exposure to workers. Examples of such activities include melting, welding,grinding,abrasive sawing,sanding and polishing.Any activity which abrades the surface of this material can generate airborne particulate.Use appropriate NIOSH approved respiratory protection (P95; P100 for lead with, quantitative fit testing required) if exposures exceed the permissible limits.

\* The Occupational Safety and Health Administration (OSHA) have set mandatory limits on occupational exposures.

\* Aluminum, in solid form and as contained in finished products presents no special health risk.

\* Sold for manufacturing purposes only.This product can be recycled; contact your sales representative.

For additional information, call or write to Copper and Brass Sales,22355 West Eleven Mile Road, Southfield, MI 48033,telephone 248-233-5600, or visit our web site @ [www.copperandbrass.com](http://www.copperandbrass.com).



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20874**

Purchase Order Date 8/9/2013

PO Print Date 8/9/2013

Page Number 1 of 2

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Ship To : DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**PAID**  
08/30/13

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	Yours ppd	FOB	FCA - (Free Carrier)
Ship Acct:			

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M7075T6B5.000X0.375	7075-T6 BAR 5.000" X 0.375"	8/20/2013	Yes	96.33	\$12.66	\$1,220.00
			8/20/2013	f			

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 OR FROM PLATE QQ-A-250/12

Line Total: \$1,220.00

2	M7075T6B5.000X1.000	7075-T6 BAR 5.000" X 1.000"	8/20/2013	Yes	24.08	\$28.15	\$678.00
			8/20/2013	f			

AS ABOVE

Line Total: \$678.00

3	M7075T6B2.250X02.750	7075-T6 BAR 2.250' X 2.750"	8/20/2013	Yes	96.33	\$31.97	\$3,080.00
			8/20/2013	f			

AS ABOVE

Note:

Sp 13-8-16



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO20874**

Purchase Order Date 8/9/2013

PO Print Date 8/9/2013

Page Number 2 of 2

**Order From :** VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

**Ship To :** DART AEROSPACE LTD  
1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**  
**Vendor Phone** 905 669 9444

**Ship To Contact**  
**Ship To Phone**  
**Ship Via:** Yours ppd  
**Ship Acct:**

**Buyer** Chantal Lavoie  
**Customer POID**  
**Customer Tax #** 10127-2607  
**Terms** Net 30  
**Currency** CAD  
**FOB** FCA - (Free Carrier)

4	M7075T6B7.000X2.000	7075-T6 BAR 7.000" X 2.000" (order in billets)	8/20/2013	22.30	\$71.30	\$1,590.00
---	---------------------	--	-----------	-------	---------	------------

Yes f  
8/20/2013

AS ABOVE  
PLEASE CUT MATERIAL TO SIZE:  
20 PCS CUT @ 13.375" GRAIN ALONG 13.375"

**Line Total:** \$3,080.00

5	M7075T6B3.000X04.500	7075-T6 BAR 3.000' X 4.500"	8/20/2013	56.67	\$64.24	\$3,640.00
---	----------------------	-----------------------------	-----------	-------	---------	------------

Yes f  
8/20/2013

AS ABOVE  
PLEASE CUT MATERIAL TO SIZE:  
20 PCS CUT @ 34" GRAIN ALONG 34"

**Line Total:** \$1,590.00

**Line Total:** \$3,640.00

**PO Total:** \$10,208.00

SP13-8-19.

WCL

**Note:** Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.  
No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES NO  
PST# 6122-5207

**Change Nbr:** 1 **Change Date:** 8/9/2013